

CLAIMS

1. A fire-resisting composite yarn comprising:

- 5 - between 70% and 90% by weight of flame-retardant fibers, the said fibers comprising a polymeric material based on polyvinyl alcohol;
- between 10% and 30% by weight of at least one type of thermostable fibers which are formed from a non-flammable
10 material.

2. A yarn according to claim 1, characterised in that the flame-retarded fibers also comprise a flame-retarding polymeric material.

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3. A yarn according to claim 2, characterised in that the flame-retarding polymeric material is formed from polyvinyl halide, in particular polyvinyl chloride.

20 4. A yarn according to any one of claims 1 to 3, characterised in that the thermostable fibers are produced from a polymeric material chosen from the group comprising para-aramids, meta-aramids, polybenzimidazole-imides, polybenzoxazoles, polyacrylates, polyphenols, polyamide-imides, poly-p-phenylenediamine terephthalamides.
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5. A yarn according to any one of claims 1 to 4,

characterised in that it comprises a type of high-tenacity thermostable fiber.

6. A yarn according to any one of claims 1 to 5,
5 characterised in that the fibers forming the yarn are mixed intimately.

7. A yarn according to claim 6, characterised in that it comprises between 10% and 20% by weight thermostable fibers.

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8. A yarn according to claim 5, characterised in that it comprises a core yarn formed from high-tenacity fibers and, associated around the said core yarn, a coating formed from other fibers.

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9. A yarn according to claim 8, characterised in that it comprises between 20% and 30% by weight thermostable fibers.

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10. A textile intended for producing protective clothing, characterised in that it comprises at least one woven or knitted textile layer formed with yarns according to any one of claims 1 to 9.

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11. A textile according to claim 10, characterised in that the textile layer is dyed or printed.

12. A textile according to claim 10 or 11, characterised in that it comprises, associated with the textile layer, a non-flammable impermeable/breathable layer.